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To cite this version:

HAL Id: hal-00821502
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Submitted on 14 May 2014

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Measuring the dynamics of circular dichroism in a pump–probe experiment with a Babinet–Soleil compensator: erratum

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Received December 21, 2006; posted December 21, 2006 (Doc. ID 78362); published March 15, 2007
OCIS codes: 320.7120, 120.2130.

The calculation in Ref. 1 utilized the Jones matrix formalism developed in Ref. 2. Unfortunately, there has been a confusion in the definition of the right- and left-handed polarization of light, which results in a sign error in the formulas of Ref. 1. With the usual definition of the circular dichroism given in Eq. (3), η should be replaced by −η in all the subsequent equations. The same is true for Δη. In particular, Eq. (8) should read

I_{out} = e^{-aL} \left[ \left( e - \frac{\delta}{2} \right)^2 + \left( X - \frac{\eta}{4} \right)^2 \right],

(1)

and Eq. (18) should read

LI = -\Delta nLZ^2 - \frac{1}{2} \Delta \eta Z + K_8.

(2)

The signs of the experimental values of η and Δη measured in the article are nevertheless correct.

A typo also occurred in Eq. (15), which should read

Z = Y - \frac{\Delta \eta e^{-aL}}{4(e^{-aL} + 1)}.

(3)

REFERENCES